

Title (en)  
Vaccines against septicemic bacteria

Title (de)  
Impfstoffe gegen Bakterien, die zur Blutvergiftung führen

Title (fr)  
Vaccins contre les bactéries septicémiques

Publication  
**EP 0389347 B1 20031008 (FR)**

Application  
**EP 90400734 A 19900319**

Priority  
FR 8903626 A 19890320

Abstract (en)  
[origin: EP0389347A1] The bacteria expressing iron-regulated outer membrane proteins of which certain are siderophore or transferrin receptors can be used in a vaccinal preparation. Said bacteria are obtained from a culture in a medium in which the iron content is reduced to a level for obtaining an increased expression of said proteins, and in particular of receptors, sufficient to induce, when said bacteria are used in a vaccine, the formation of antibodies preventing the specific recognition of siderophores by their receptors.

IPC 1-7  
**C12N 5/00**; **A61K 39/108**; **A61K 39/112**; **C12N 15/31**

IPC 8 full level  
**C12N 1/21** (2006.01); **A61K 39/02** (2006.01); **A61K 39/108** (2006.01); **A61K 39/112** (2006.01); **A61P 31/04** (2006.01); **C07K 14/24** (2006.01); **C12N 15/31** (2006.01); **C12P 21/00** (2006.01); **A61K 39/00** (2006.01); **C12R 1/01** (2006.01); **C12R 1/19** (2006.01); **C12R 1/22** (2006.01)

CPC (source: EP)  
**A61K 39/025** (2013.01); **A61P 31/04** (2018.01); **C07K 14/24** (2013.01); **A61K 39/00** (2013.01); **Y02A 50/30** (2018.01)

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LIN J. ET AL, J. DAIRY SCI., vol. 81, no. 8, 1998, pages 2151 - 2158

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WO2011131789A1; EP0597185A1; EP0540413A1; EP2421529A4; EP0563288A4; US8834890B2; US9125950B2; WO9221370A1; WO9405326A1

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